

FIG. 1

130: CARRIER DETECTION CIRCUIT

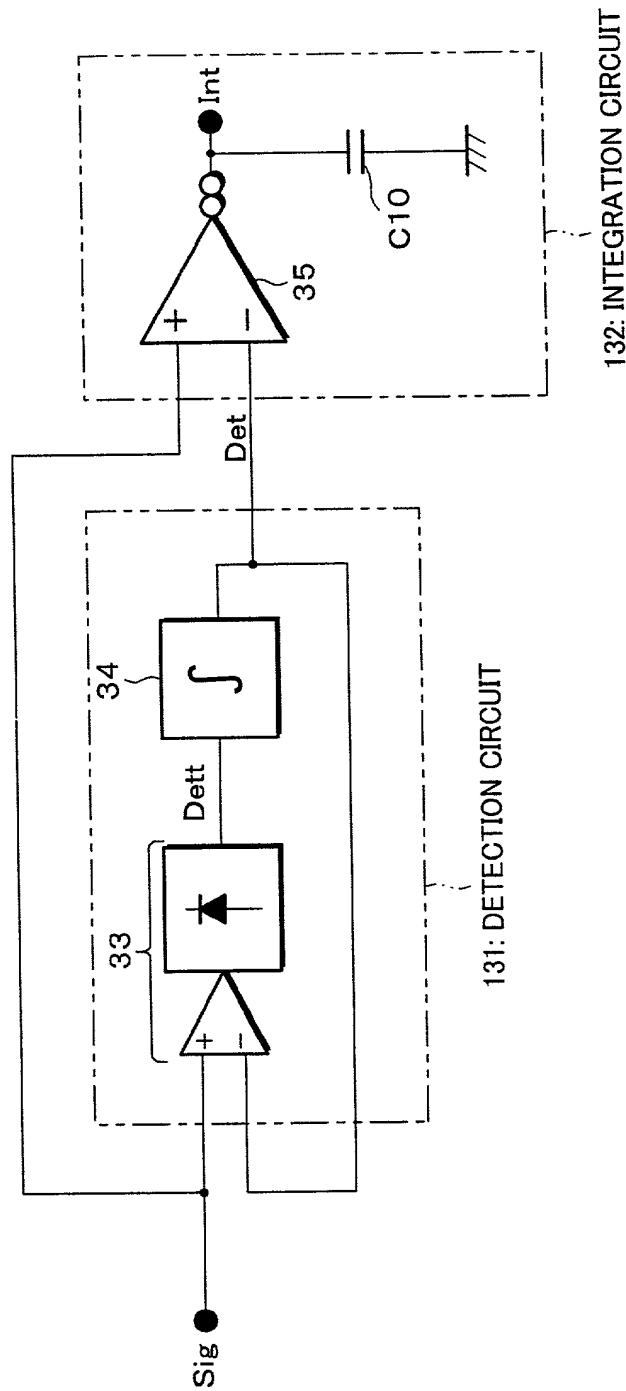


FIG. 2

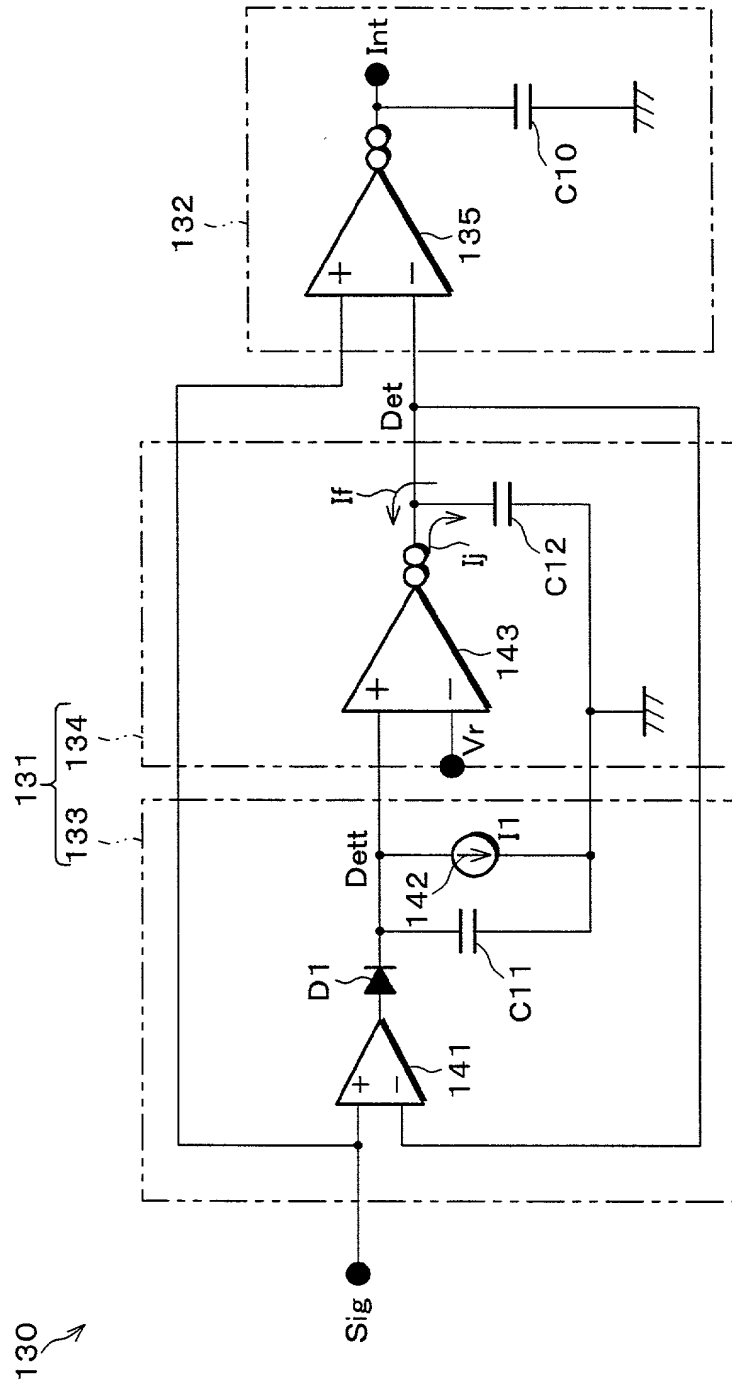


FIG. 3 (a)

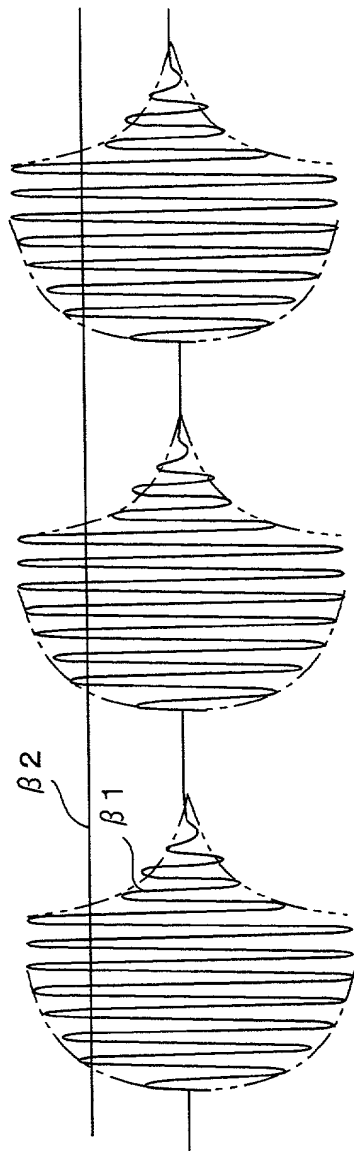


FIG. 3 (b)

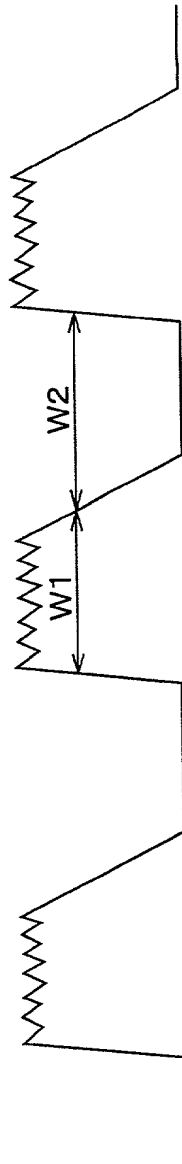


FIG. 4

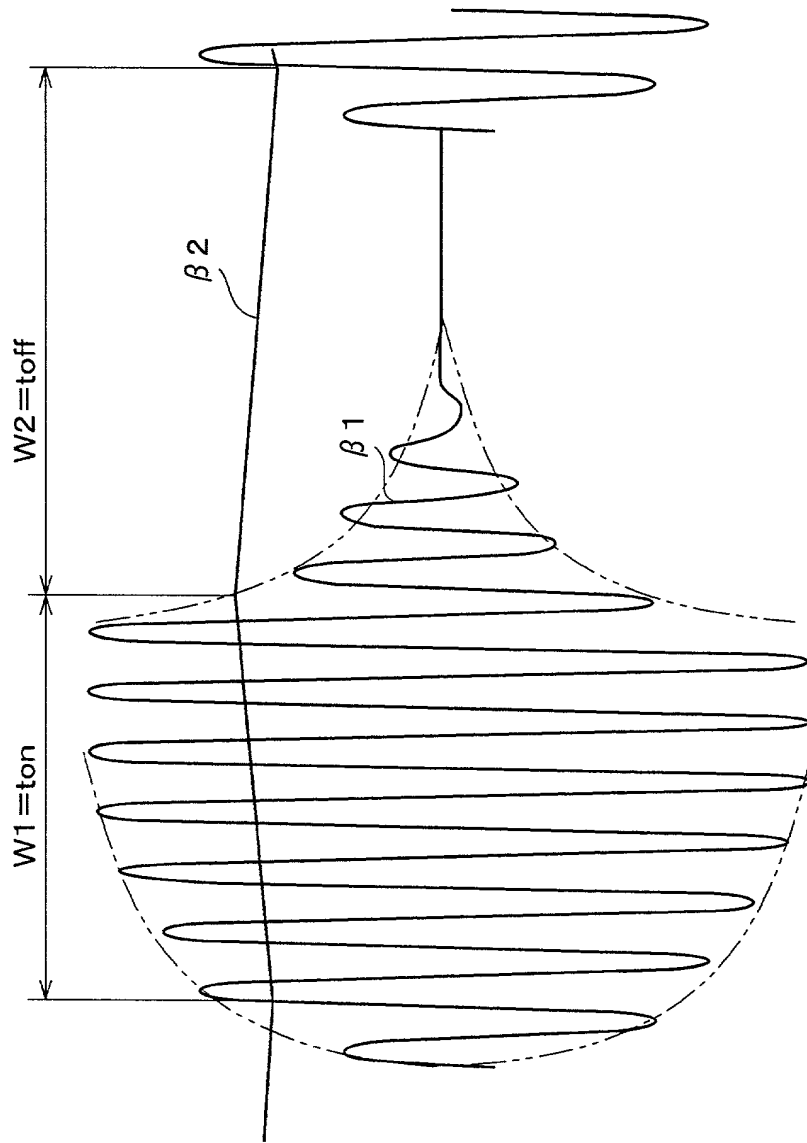


FIG. 5

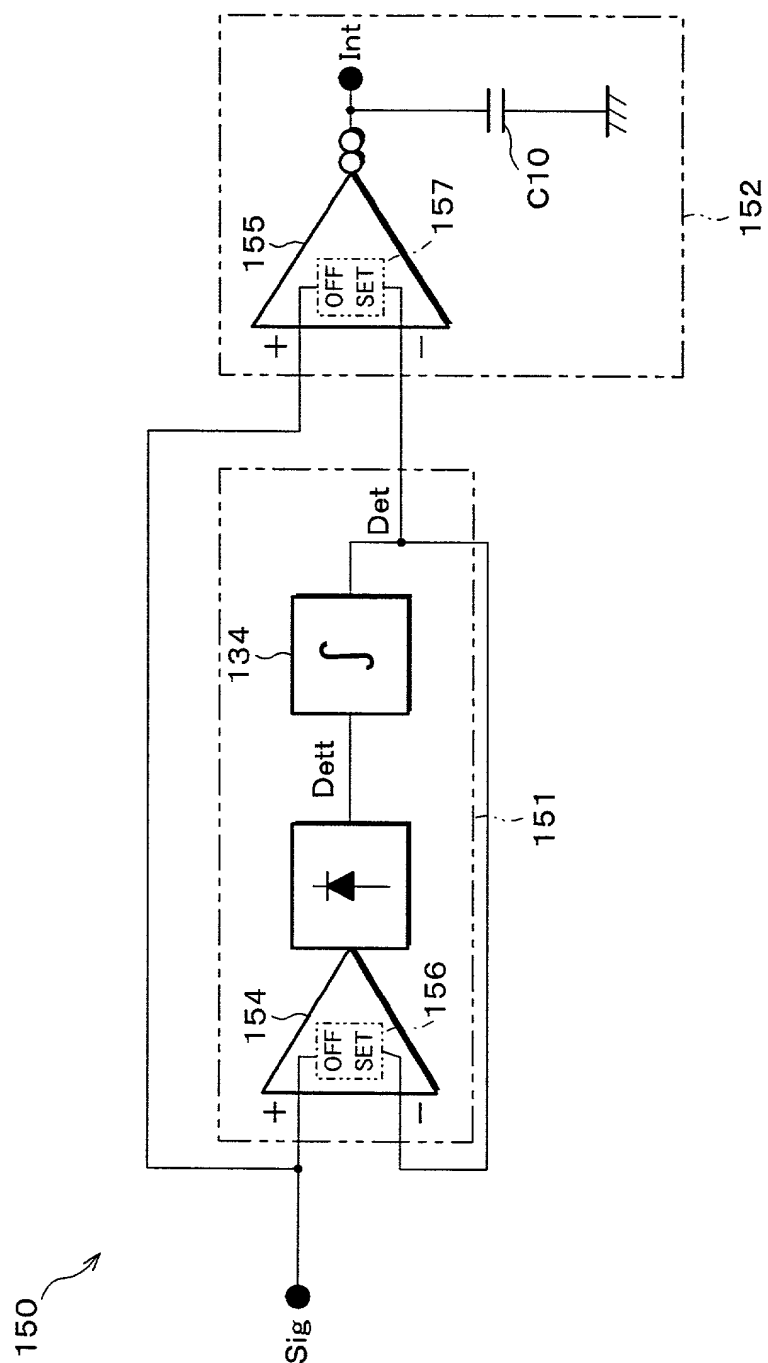


FIG. 6

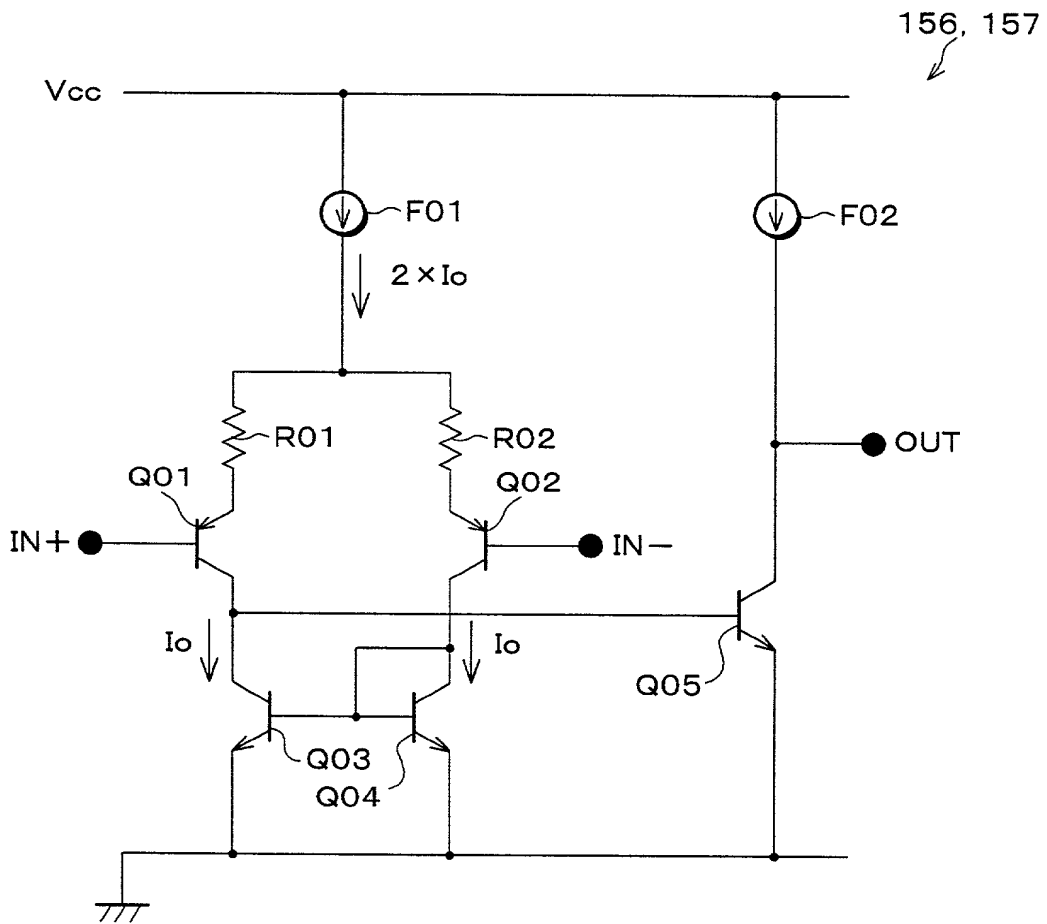


FIG. 7

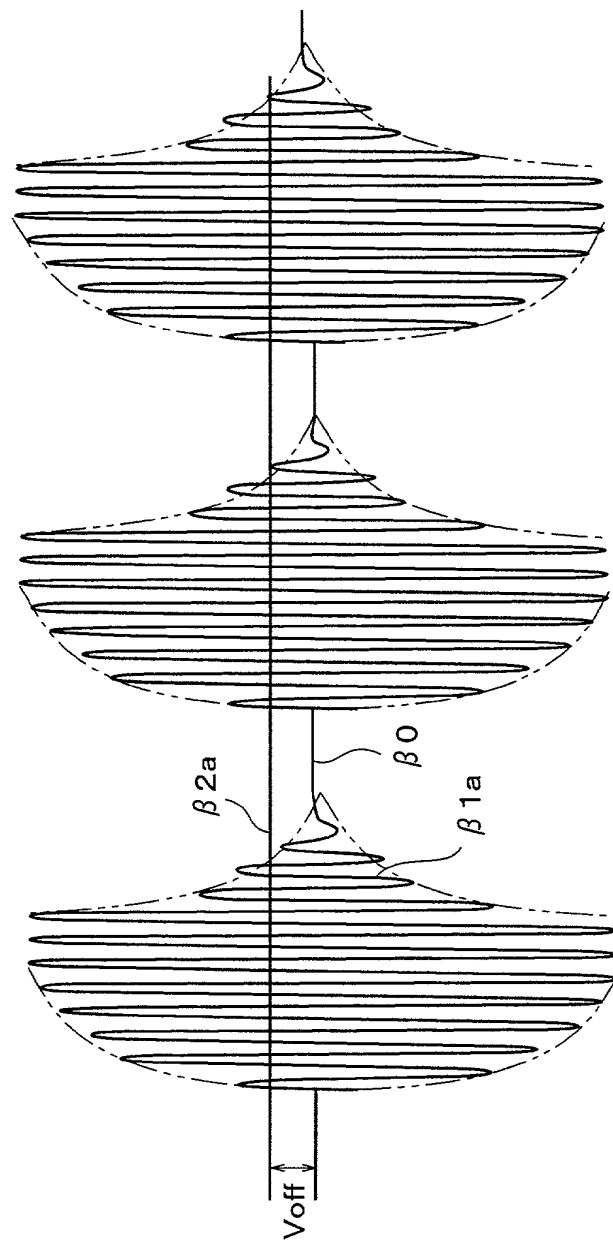
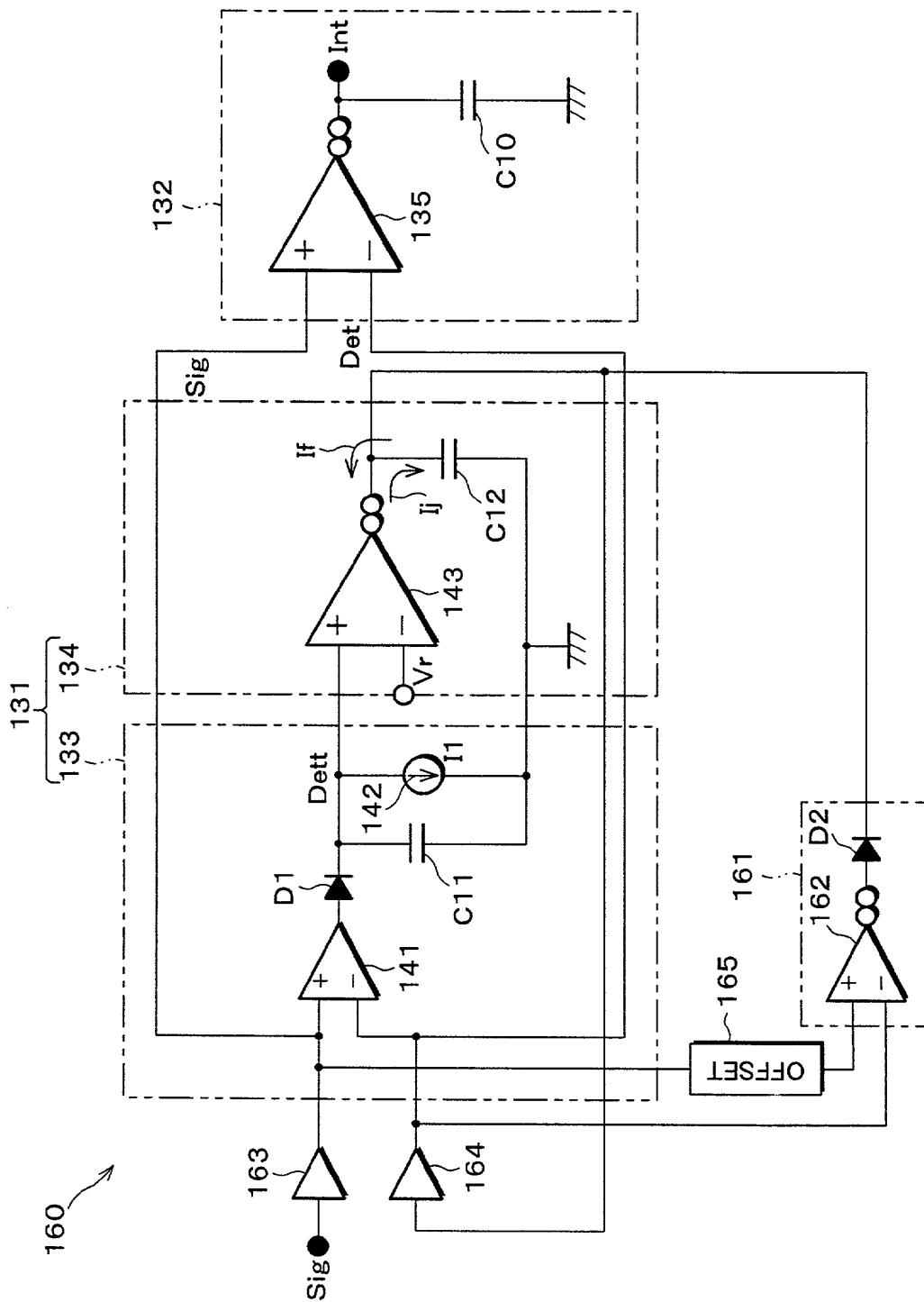


FIG. 8



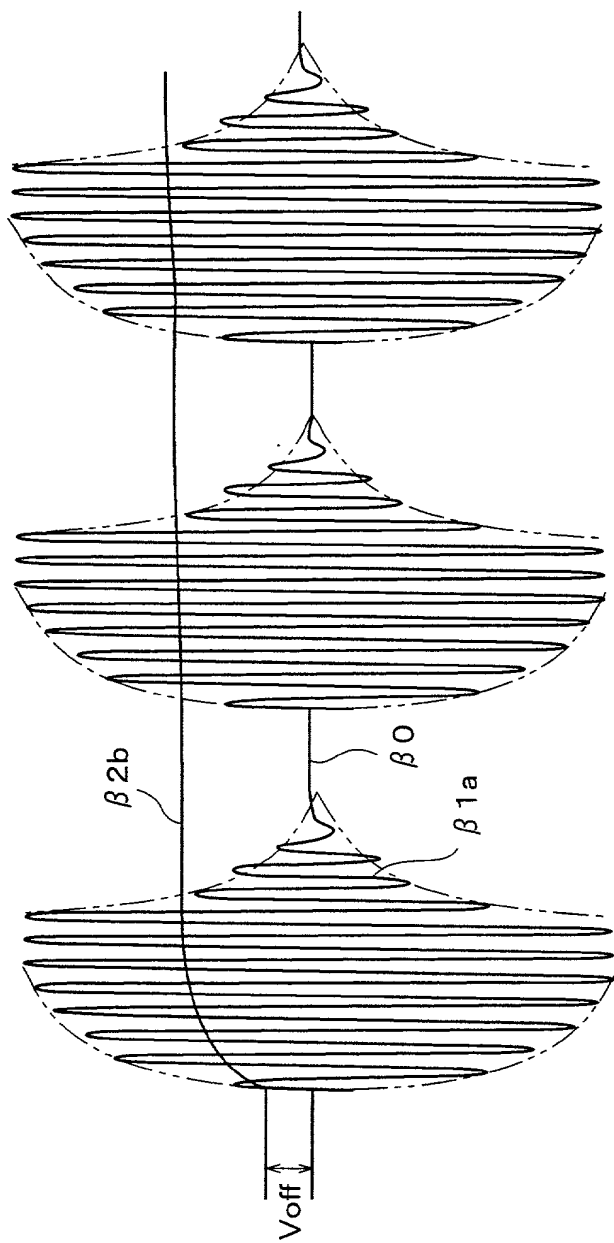


FIG. 10

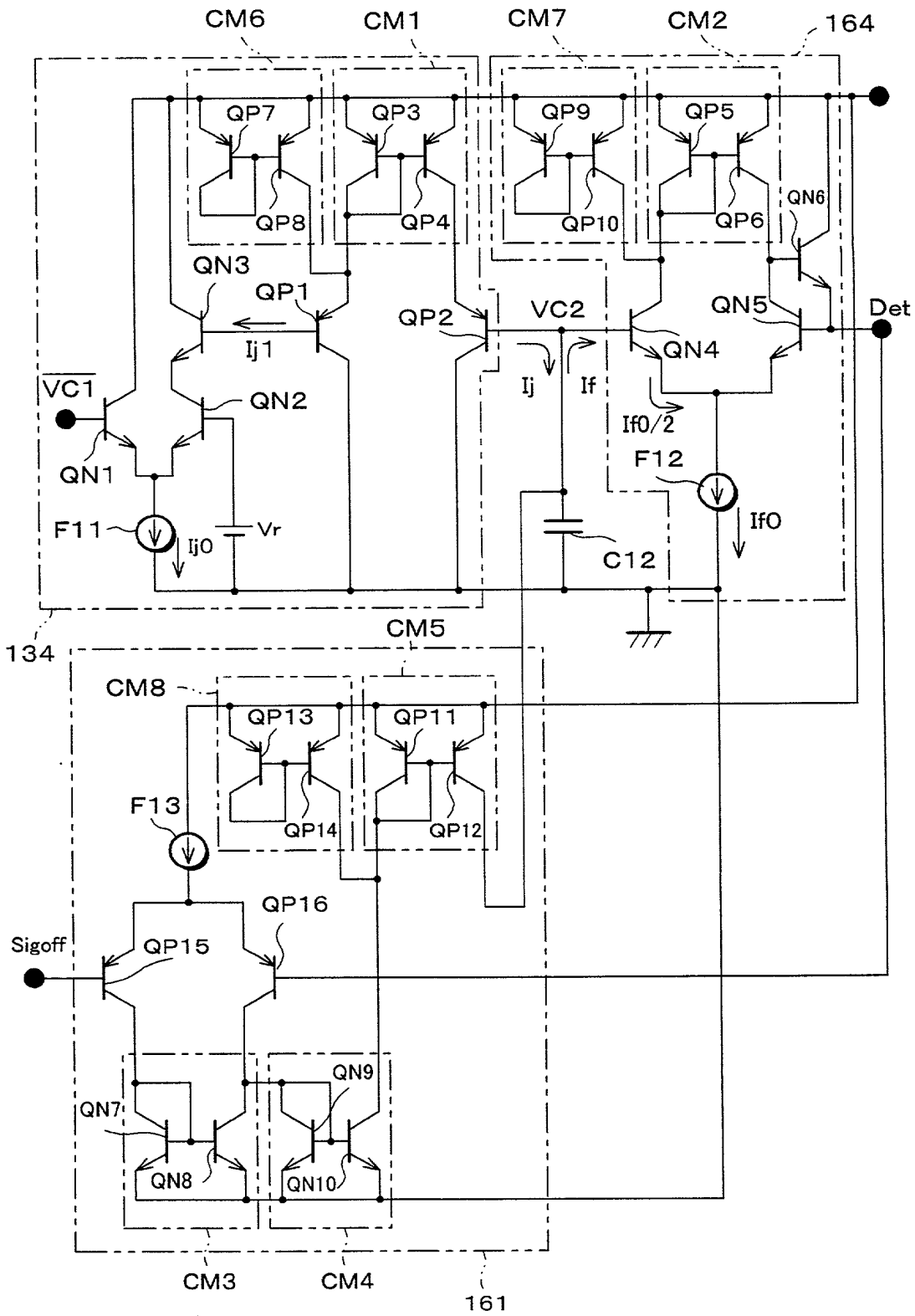


FIG. 11 (a)

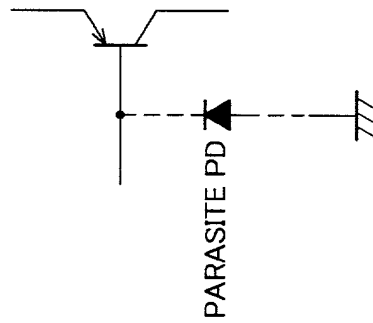


FIG. 11 (b)

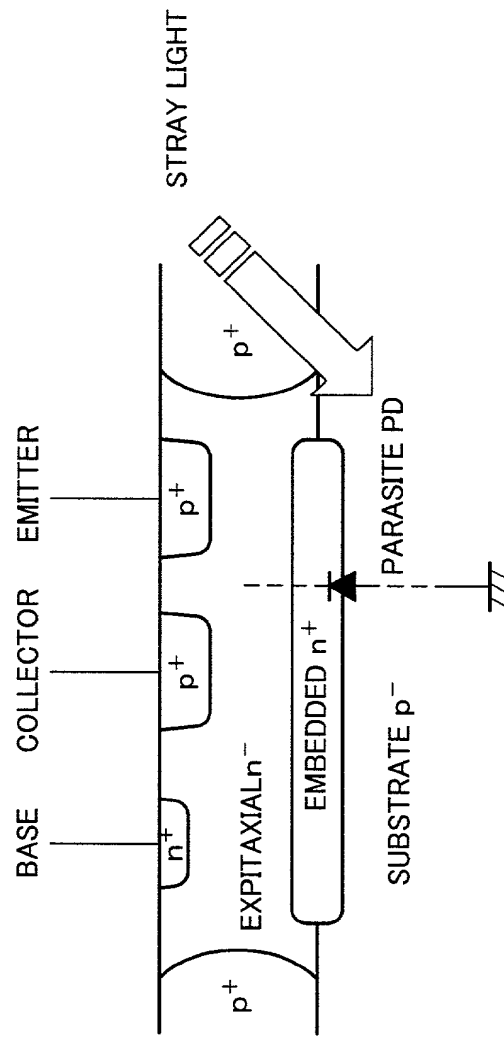


FIG. 12

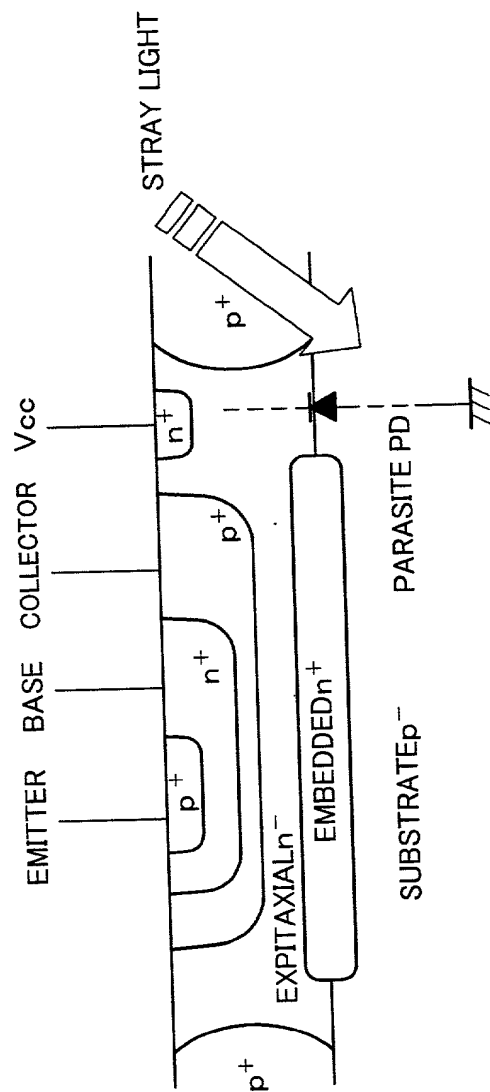


FIG. 13

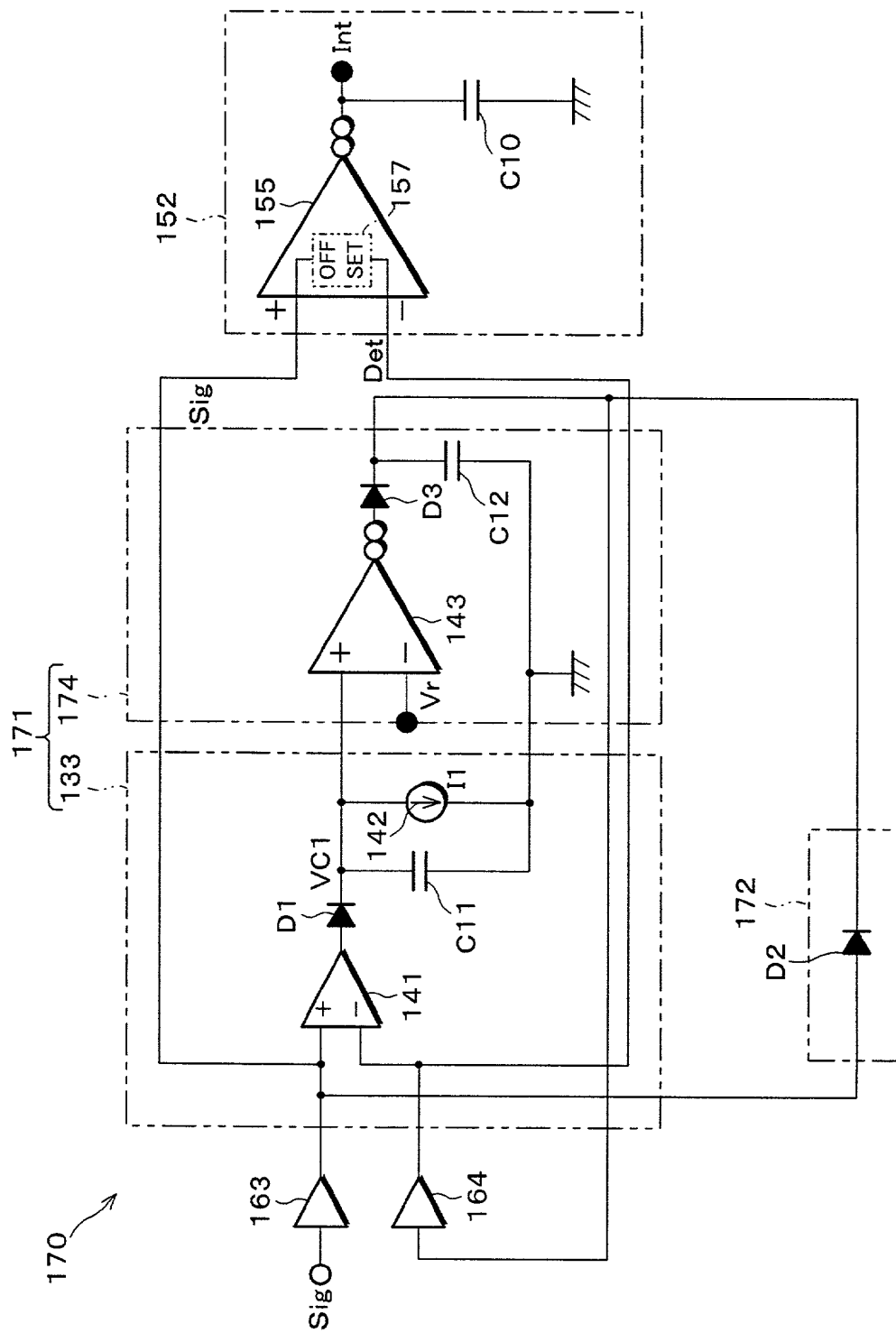


FIG. 14

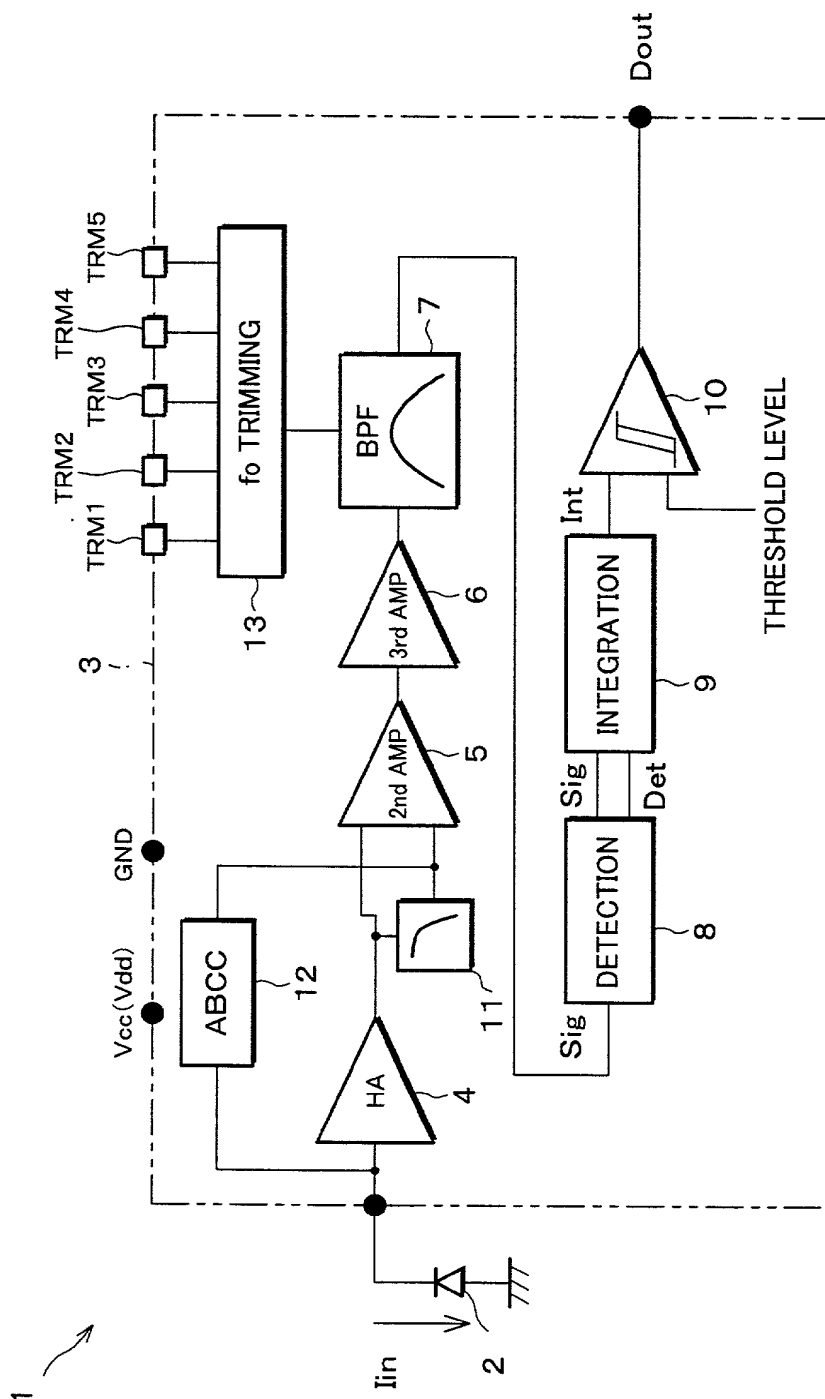


FIG. 15 (a)



FIG. 15 (b)

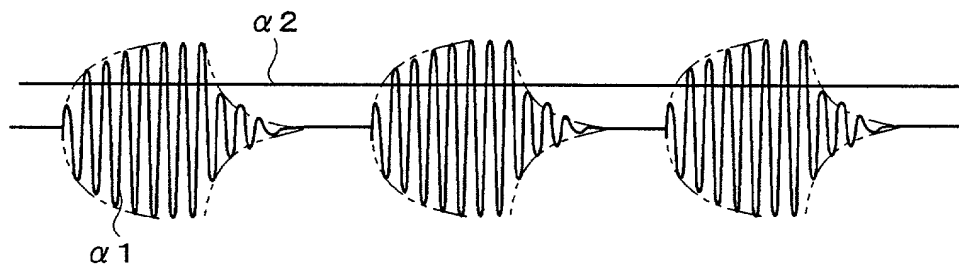


FIG. 15 (c)



FIG. 15 (d)

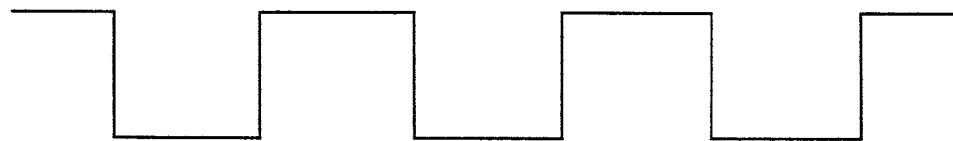


FIG. 16

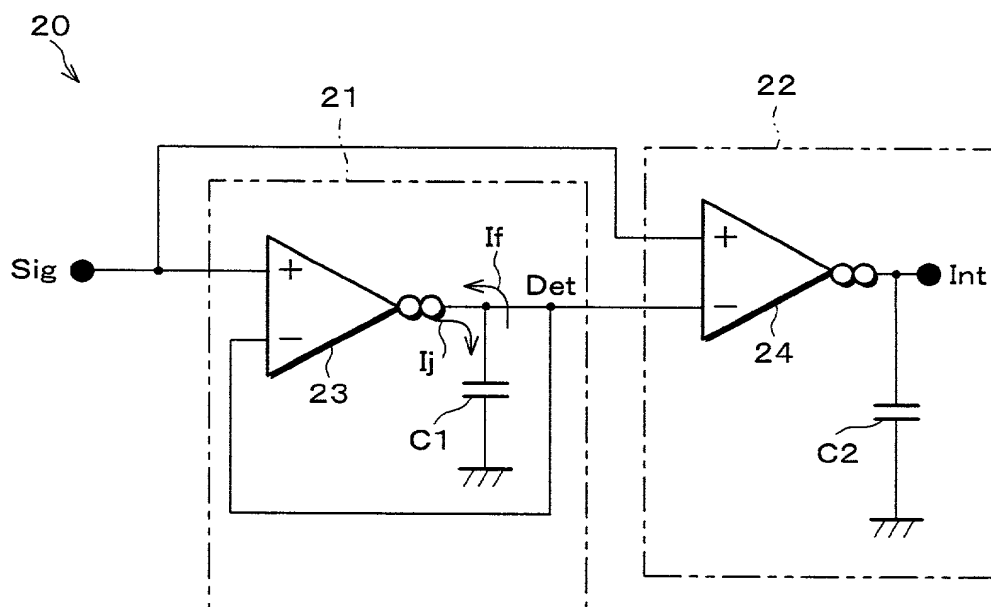


FIG. 17

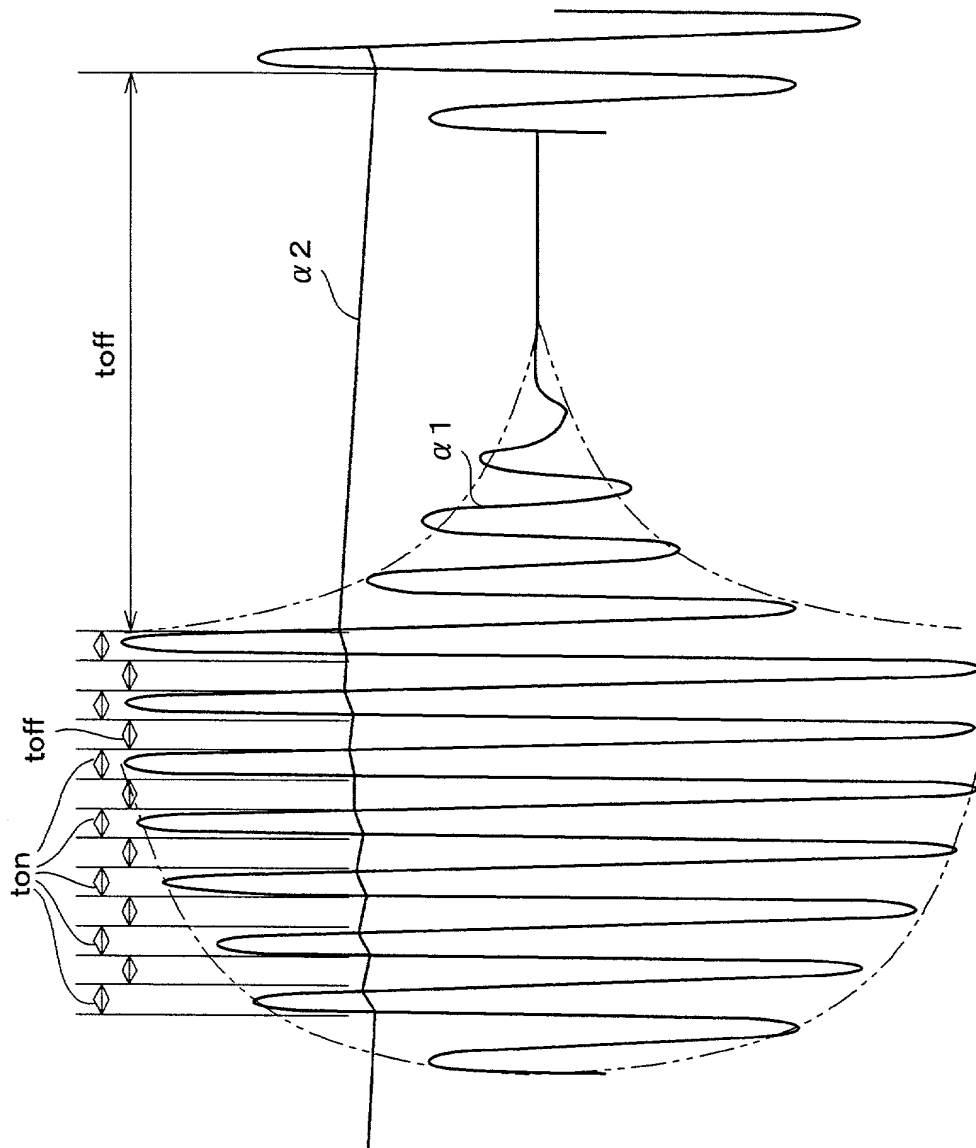


FIG. 18 is a schematic diagram of a circuit 1. The circuit 1 includes an input terminal 'In' connected to a first input of a first comparator 203. The other input of the first comparator 203 is connected to ground. The output of the first comparator 203 is connected to a first input of a second comparator 204. The other input of the second comparator 204 is connected to the output of a first block 7. The output of the second comparator 204 is connected to a first input of a third block 8. The output of the third block 8 is connected to a first input of a fourth block 10. The output of the fourth block 10 is connected to an output terminal 'Dout'.

FIG. 18

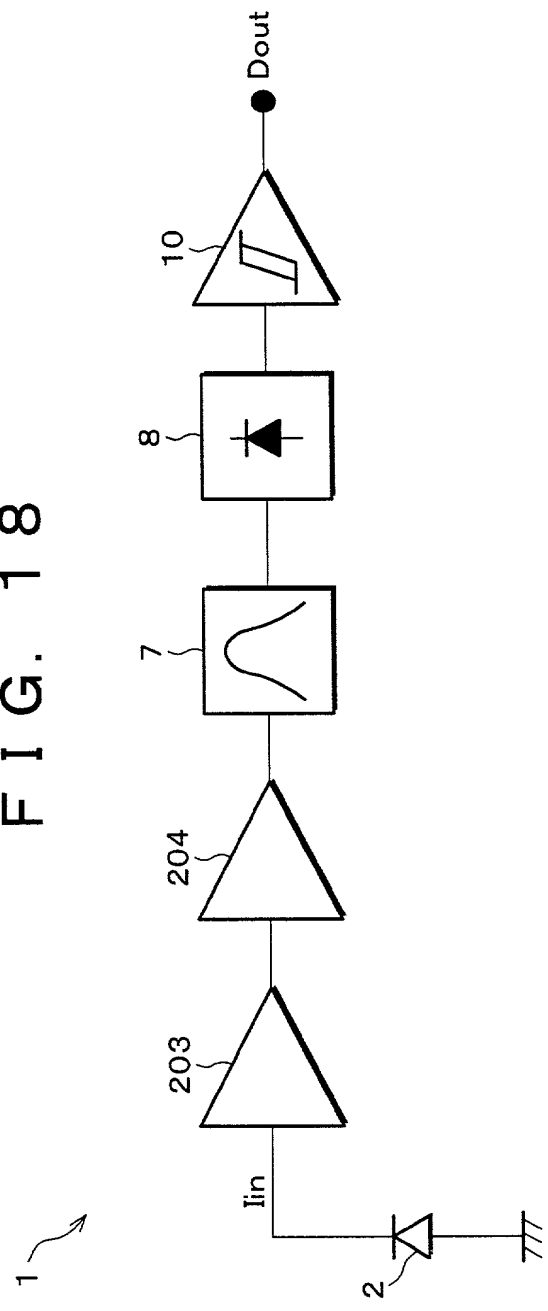
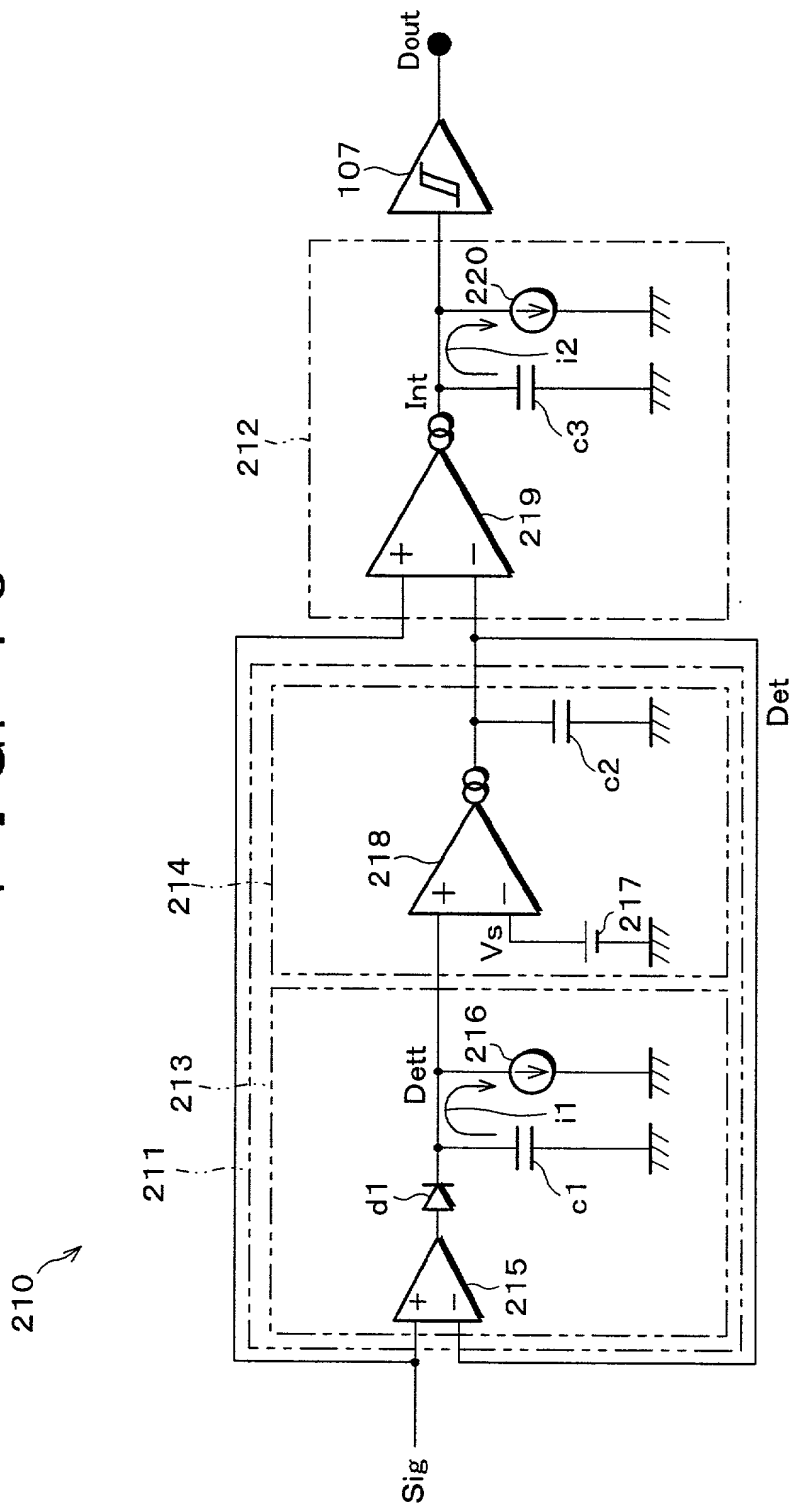


FIG. 19



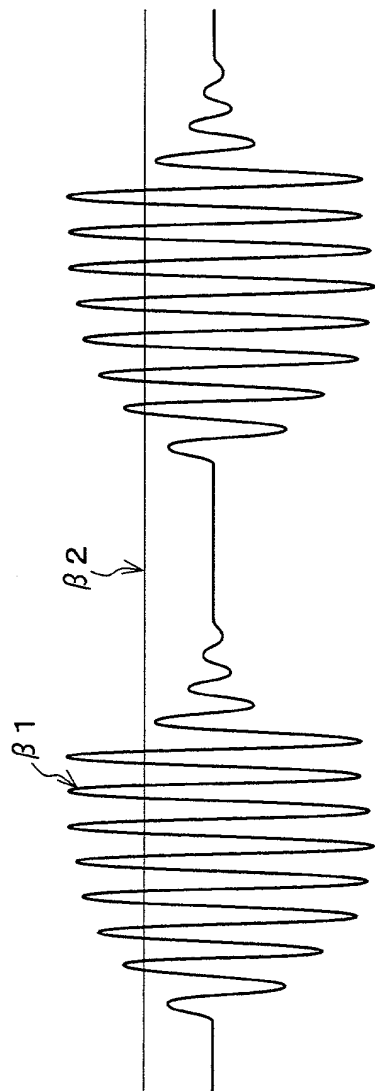


FIG. 20 (a)

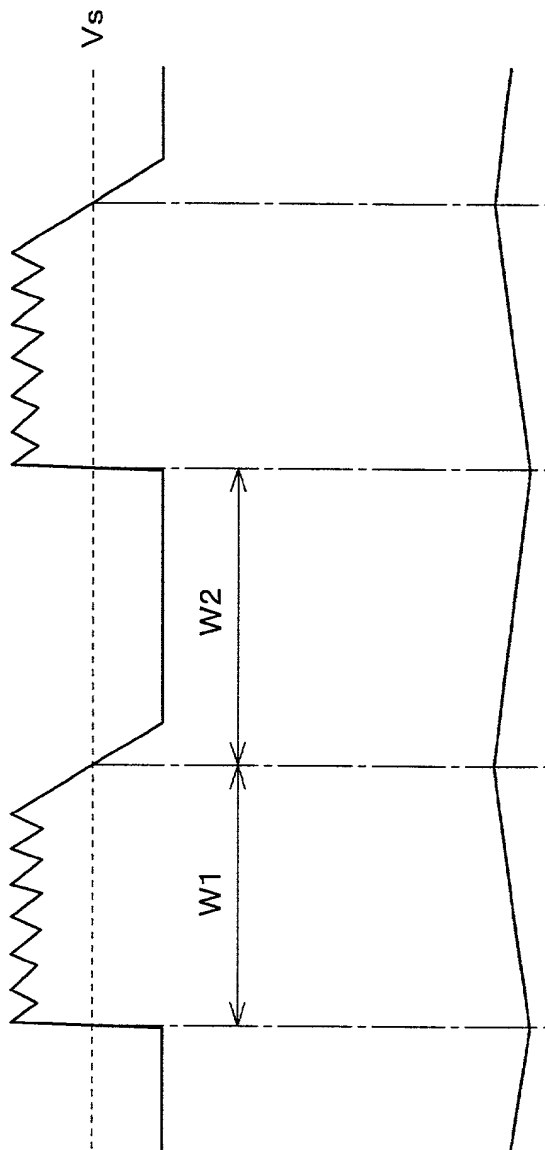


FIG. 20 (b)

FIG. 20 (c)

FIG. 21 (a)

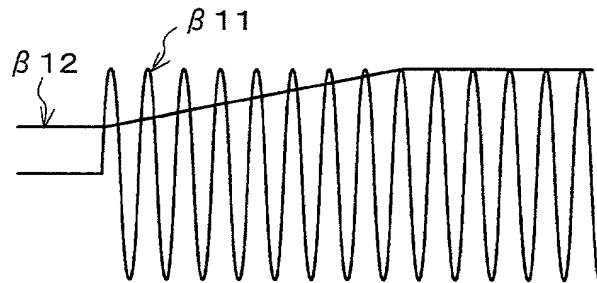


FIG. 21 (b)

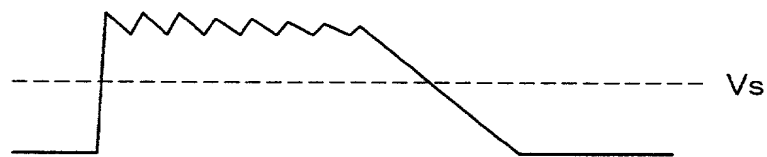


FIG. 21 (c)

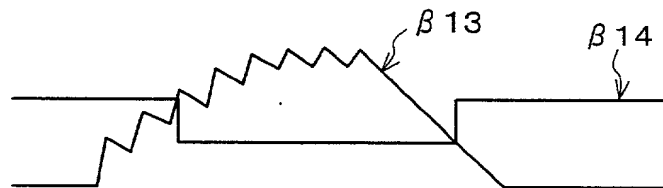


FIG. 21 (d)



FIG. 22 (d)

DATA PART

FIG. 23 (a)

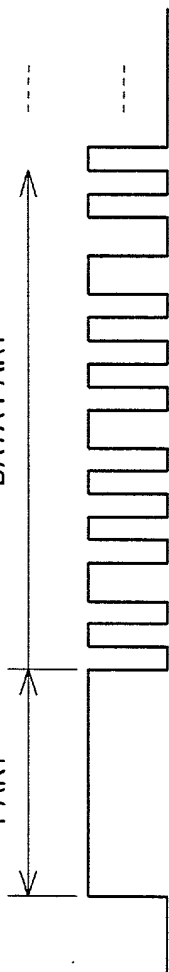


FIG. 23 (b)

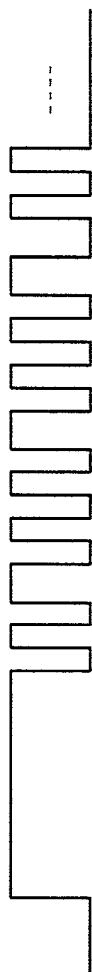


FIG. 23 (c)

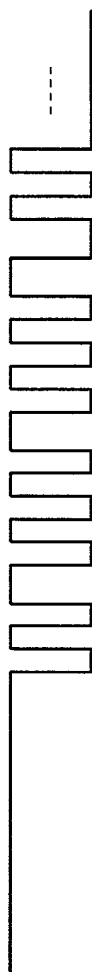


FIG. 24

30 : CARRIER DETECTION CIRCUIT

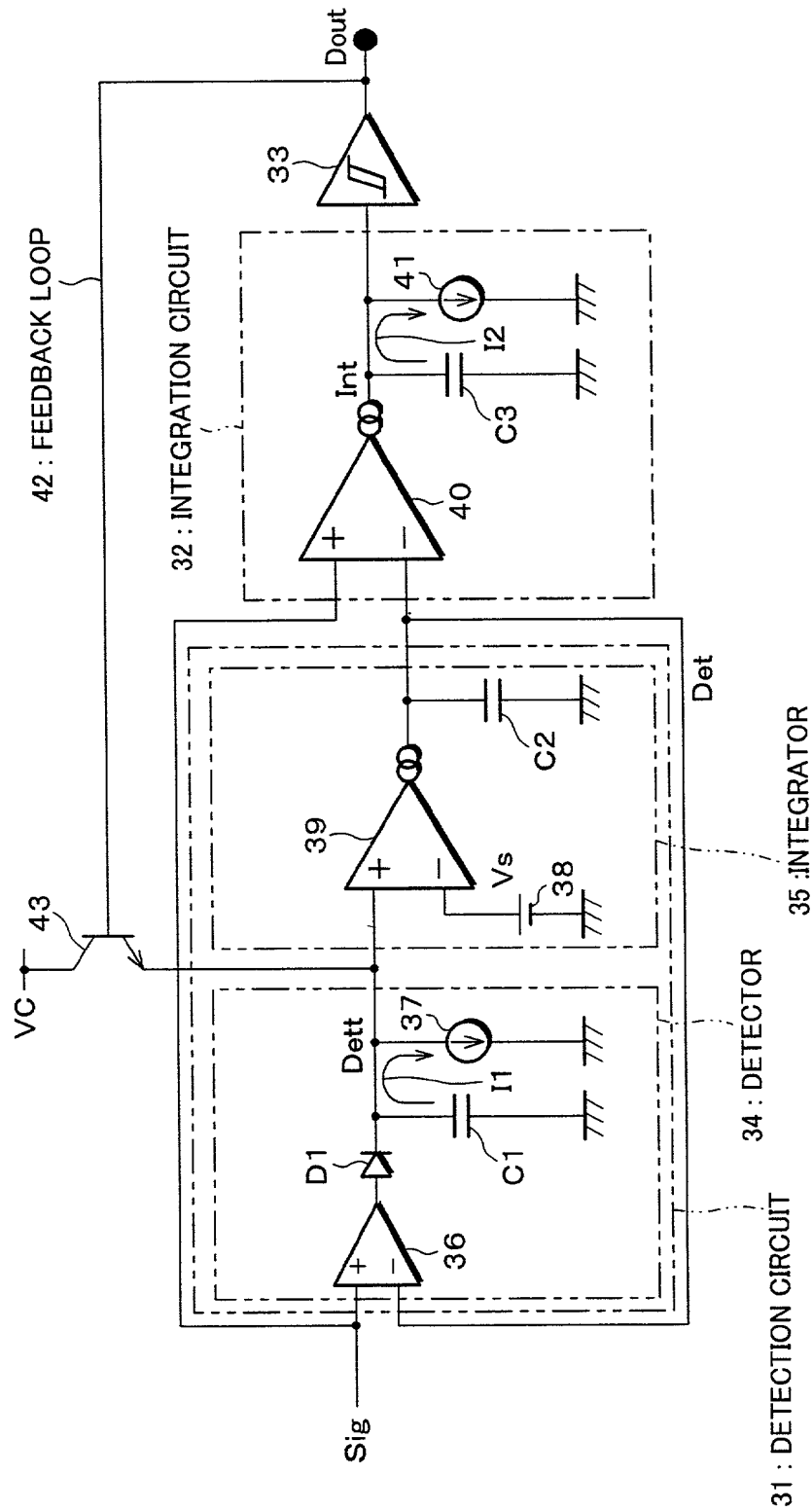


FIG. 25 (a)

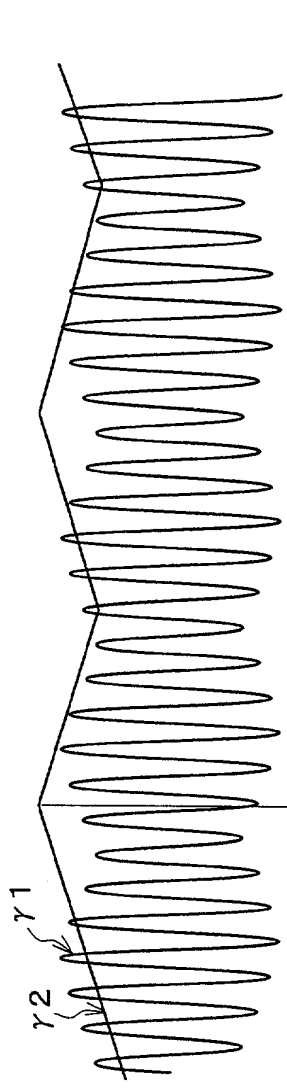


FIG. 25 (b)

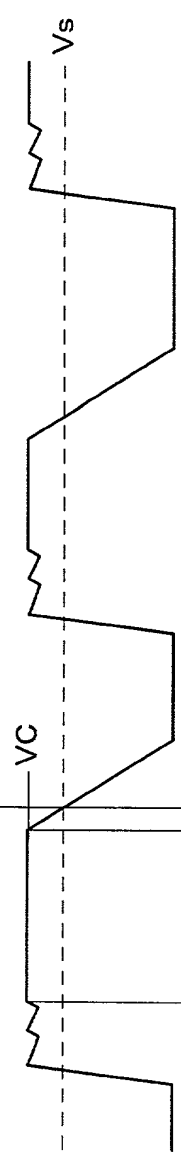


FIG. 25 (c)

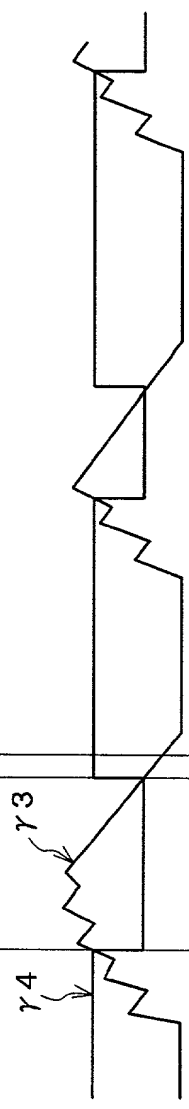
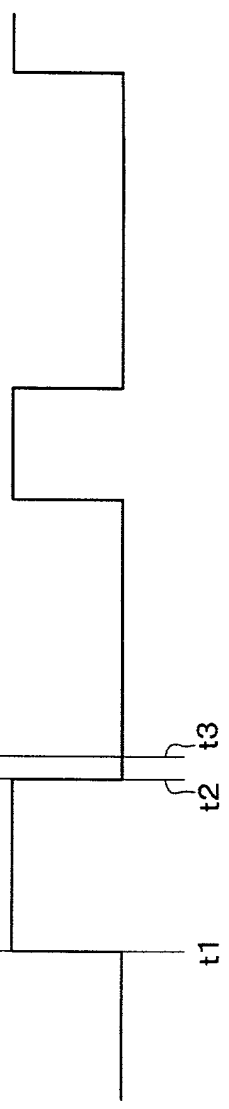
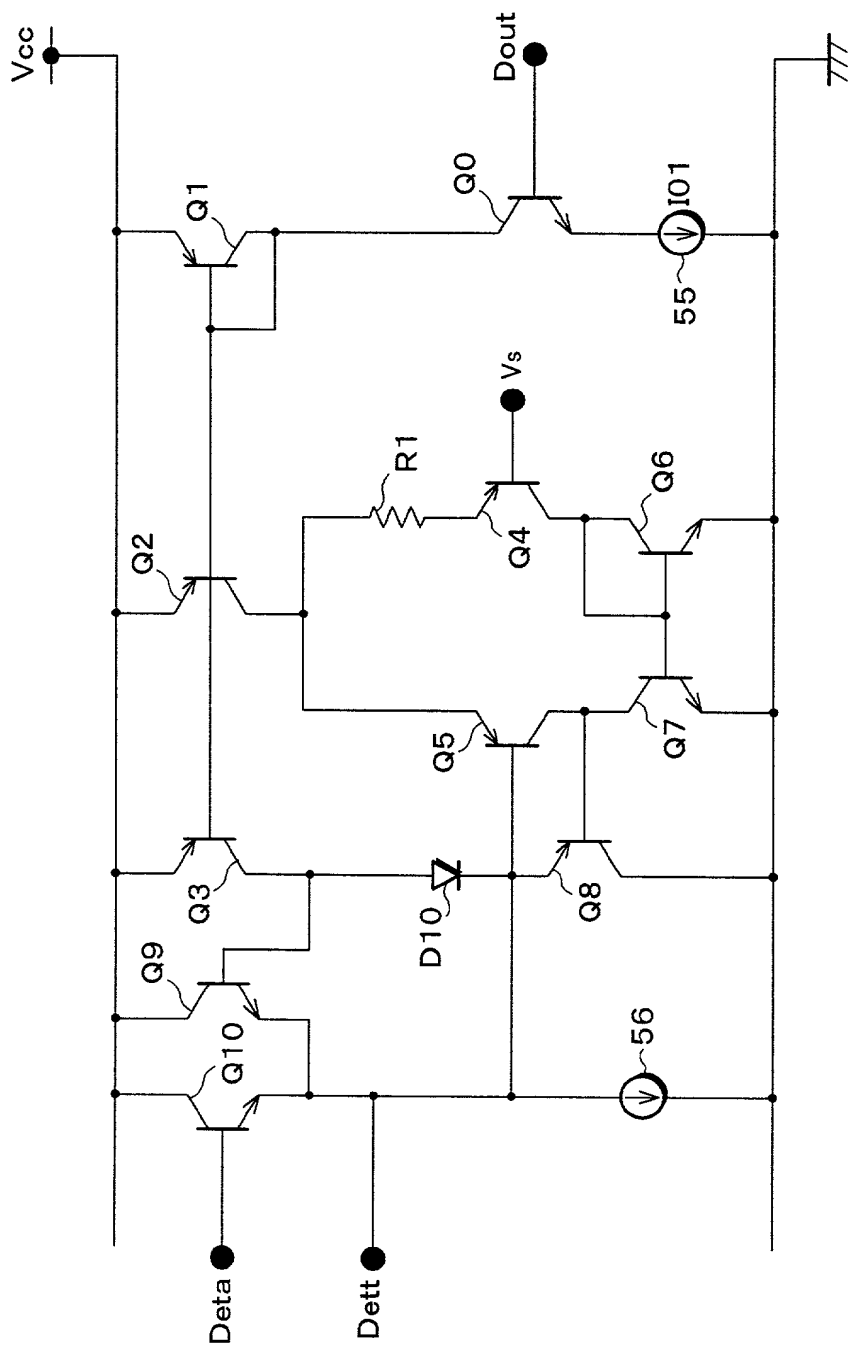


FIG. 25 (d)



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FIG. 27



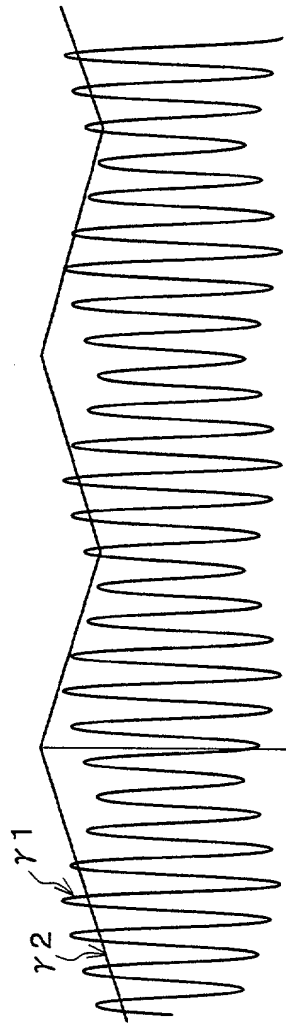


FIG. 28 (a)

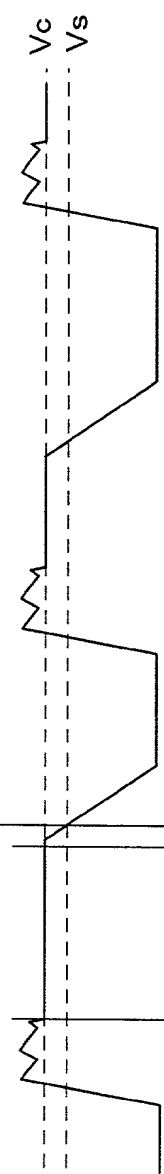


FIG. 28 (b)

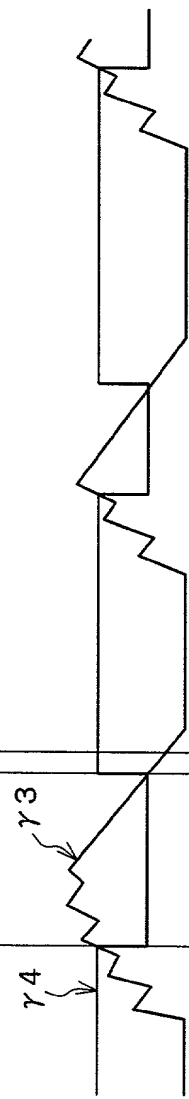


FIG. 28 (c)

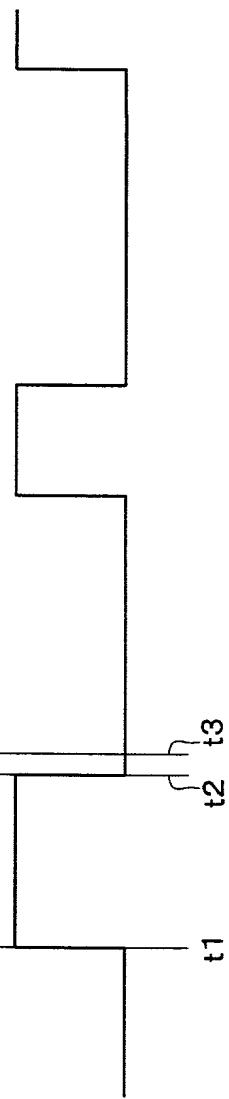


FIG. 28 (d)

FIG. 29

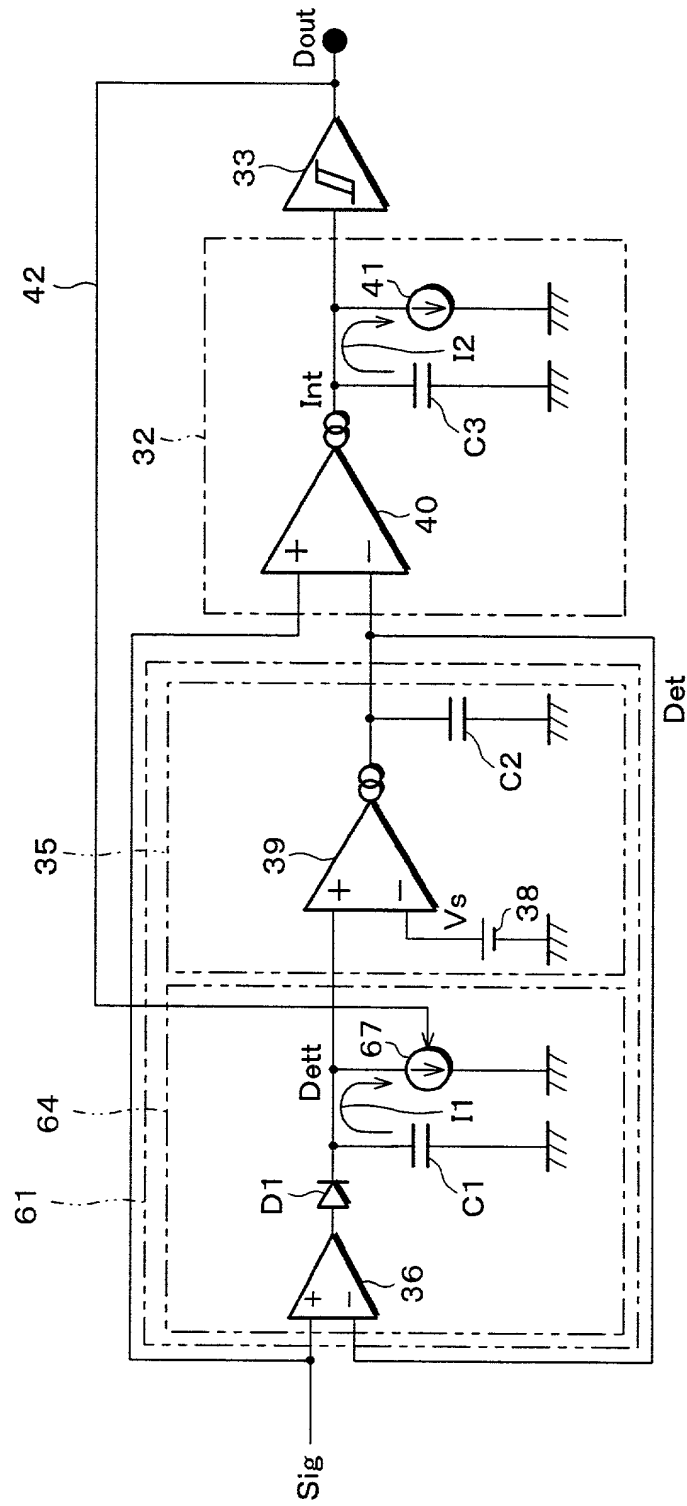
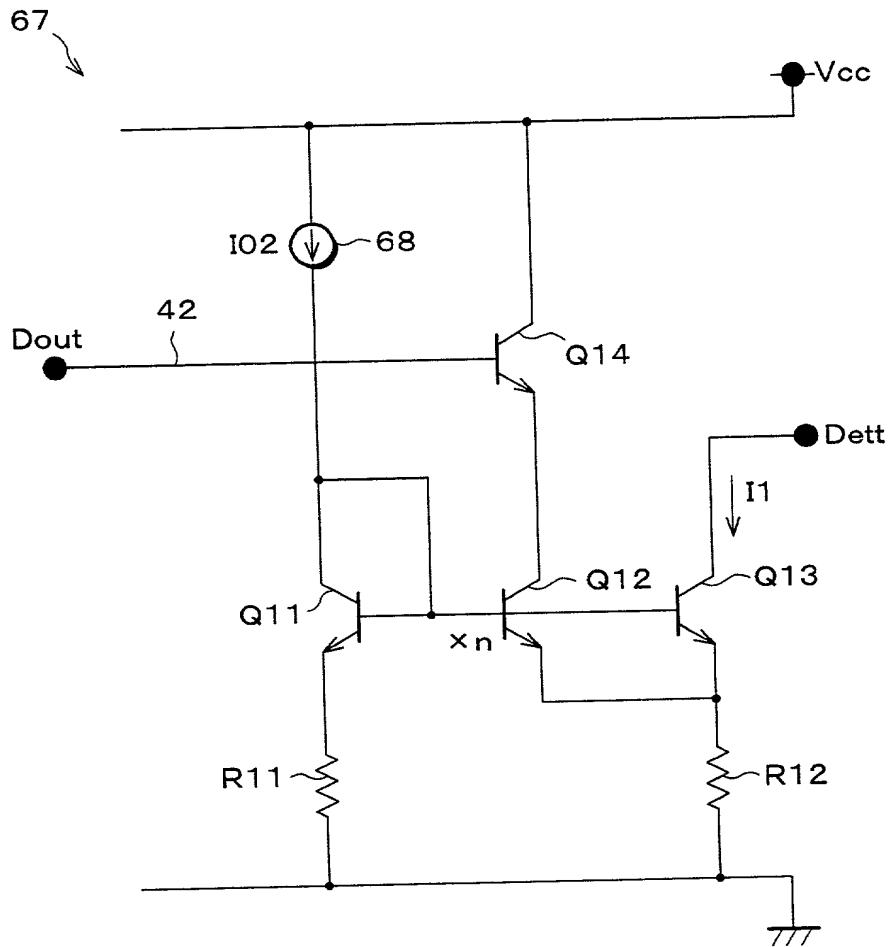


FIG. 30



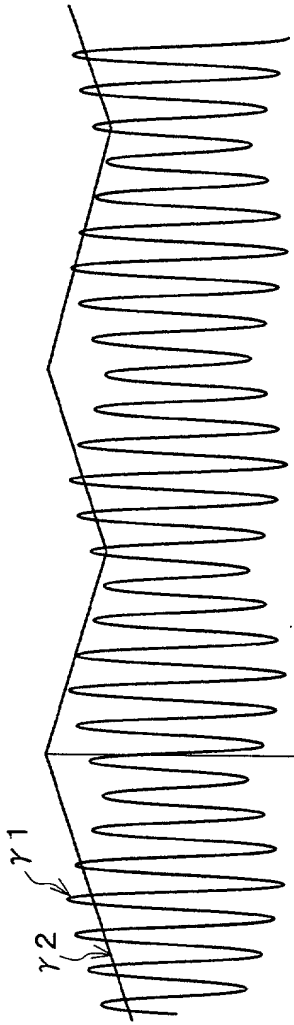


FIG. 31 (a)

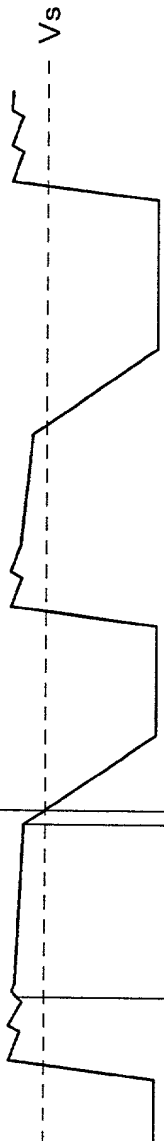


FIG. 31 (b)

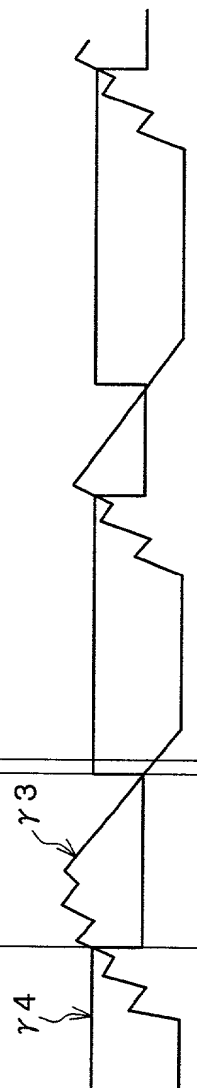


FIG. 31 (c)

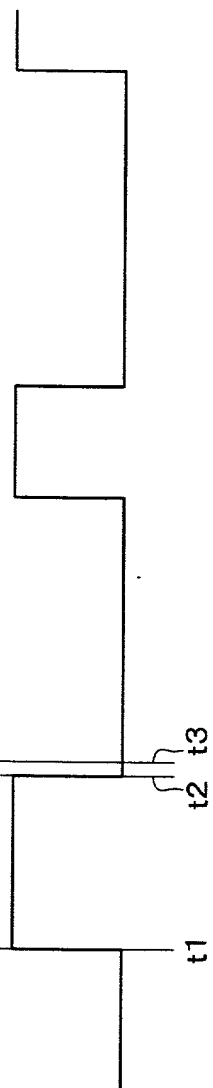


FIG. 31 (d)

FIG. 32

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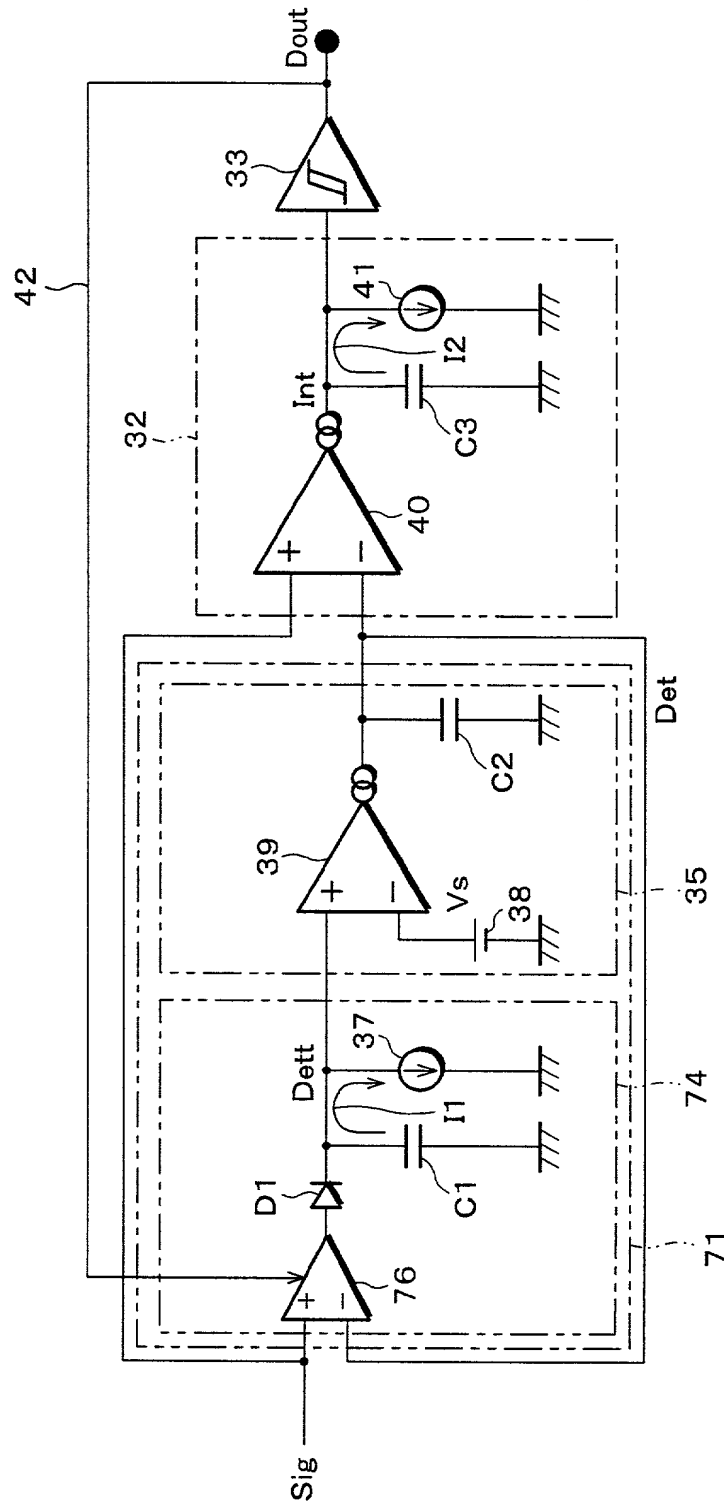


FIG. 33

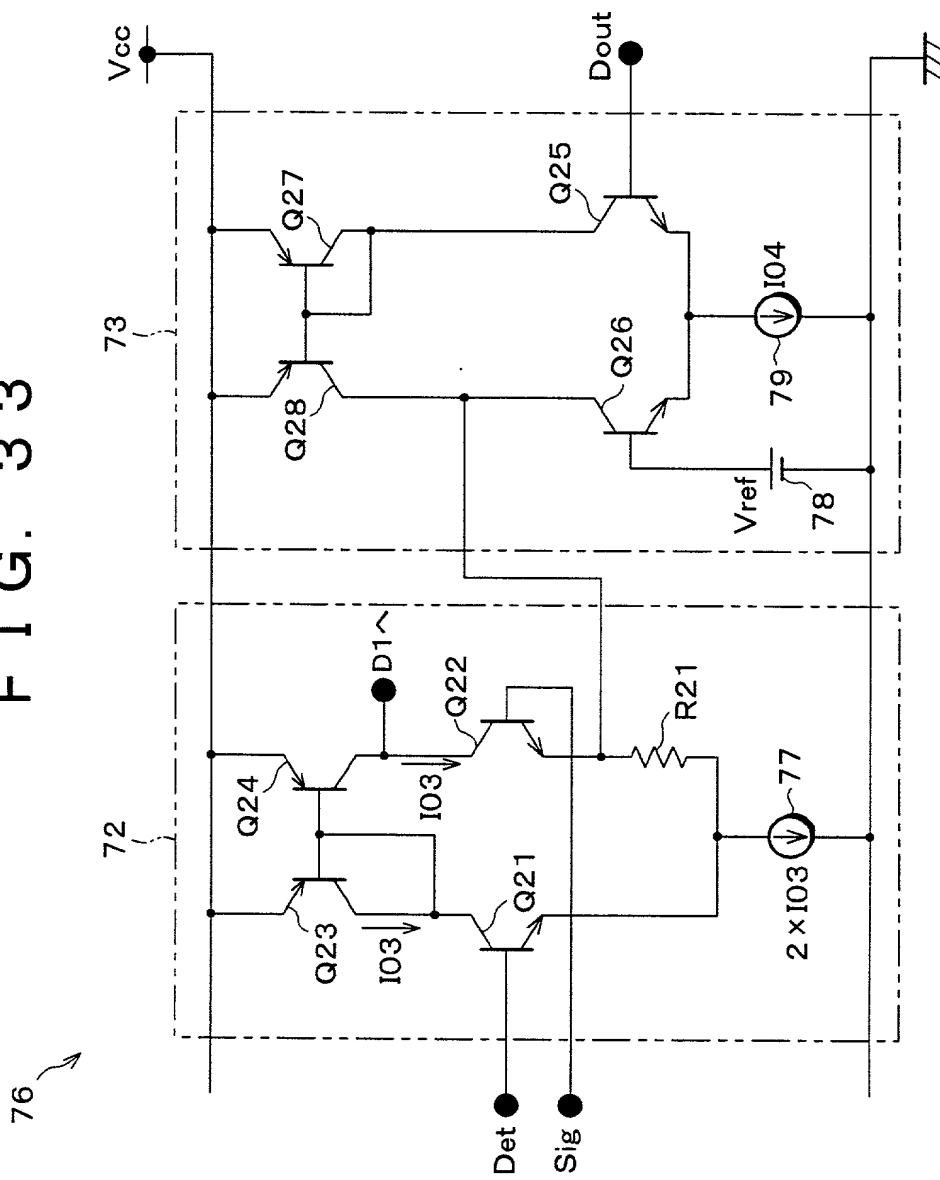


FIG. 34

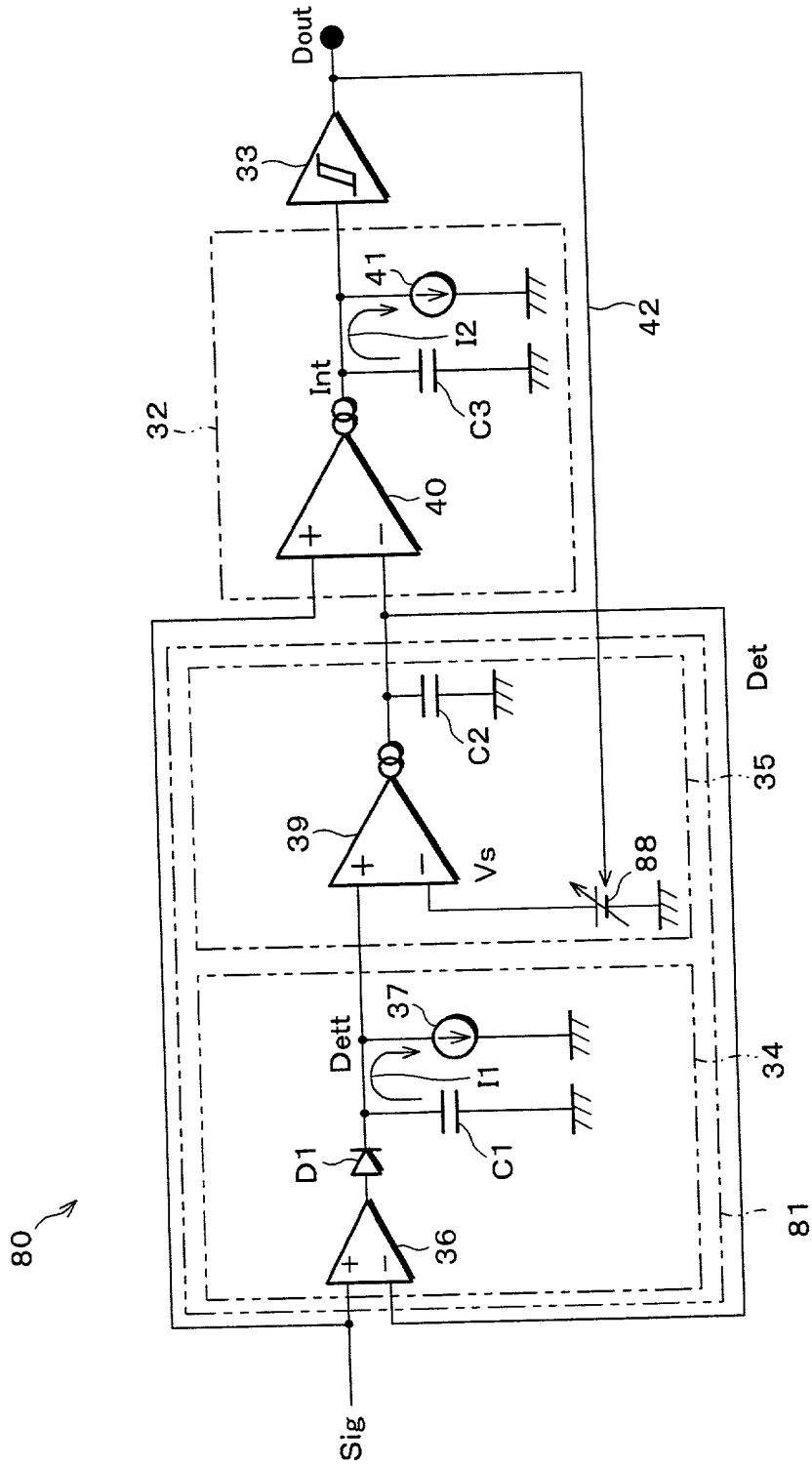


FIG. 35

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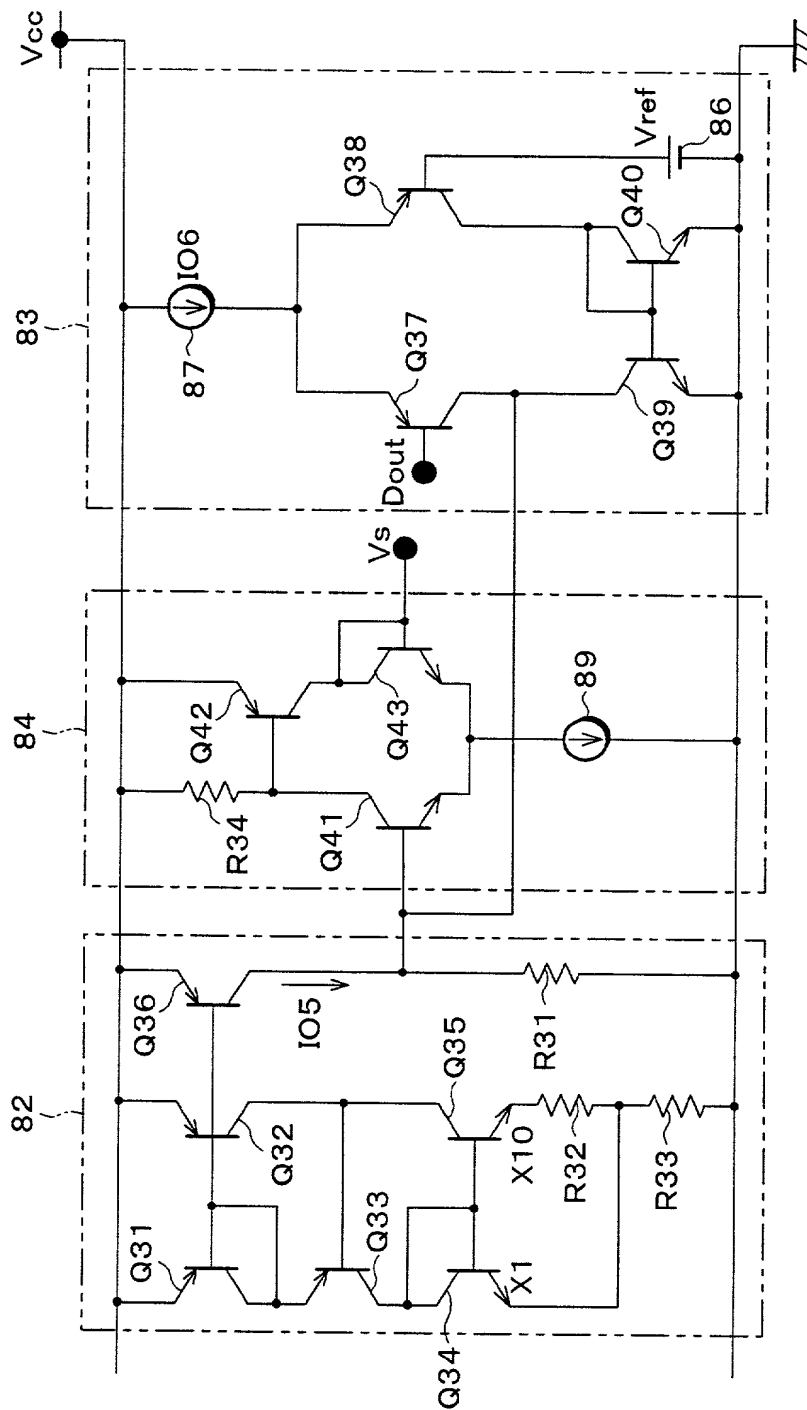


FIG. 36

